Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Dasarahalli Division

Name of Work: Improvements and Asphalting to AGB Layout Railway parallel road and 80 feet Southern side cross roads in ward No 12, Shettyhalli Sub Division

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work								
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications								
	CC Drain								
	1st Cross frm AGB Layout mn Rd to SWD (LHS)								
	LHS	1	316.00	1.20	0.90	341.28			
	RHS	1	328.00	1.20	0.90	354.24			
	1st Cross frm AGB Layout mn (RHS Up to Dead End)								
	LHS	1	258.00	1.20	0.90	278.64			
	RHS	1	271.00	1.20	0.90	292.68			
	Marison Layout								
	Chef Bakers Road(LHS)	2	101.00	1.20	0.90	218.16			
	Bharani Medical Store Road	2	206.00	1.20	0.90	444.96			
	Culvert								
	Culvert 8th Crs	1	11.60	1.50	0.90	15.66			
	Culvert 7th Crs	1	7.50	1.50	0.90	10.13			
	Culvert 6th Crs	1	7.90	1.50	0.90	10.67			
	Culvert 5th Crs	1	7.85	1.50	0.90	10.60			
	Culvert 4th Crs	1	8.00	1.50	0.90	10.80			
	Culvert 3rd Crs	1	7.60	1.50	0.90	10.26			
	Culvert 2nd	1	6.70	1.50	0.90	9.05			
	Culvert 1st	1	7.40	1.50	0.90	9.99			
	Culvert	1	7.00	1.50	0.90	9.45			
						2026.55	**Cum**	**220.40**	**446652.17**
2	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	CC Drain								
	1st Cross frm AGB Layout mn Rd to SWD (LHS)								
	LHS	1	316.00	1.20	0.15	56.88			
	RHS	1	328.00	1.20	0.15	59.04			
	1st Cross frm AGB Layout mn (RHS Up to Dead End)								
	LHS	1	258.00	1.20	0.15	46.44			
	RHS	1	271.00	1.20	0.15	48.78			
	Marison Layout								
	Chef Bakers Road(LHS)	2	101.00	1.20	0.15	36.36			
	Bharani Medical Store Road	2	206.00	1.20	0.15	74.16			
	Culvert								
	Culvert 8th Crs	1	11.60	1.50	0.15	2.61			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Culvert 7th Crs	1	7.50	1.50	0.15	1.69			
	Culvert 6th Crs	1	7.90	1.50	0.15	1.78			
	Culvert 5th Crs	1	7.85	1.50	0.15	1.77			
	Culvert 4th Crs	1	8.00	1.50	0.15	1.80			
	Culvert 3rd Crs	1	7.60	1.50	0.15	1.71			
	Culvert 2nd	1	6.70	1.50	0.15	1.51			
	Culvert 1st	1	7.40	1.50	0.15	1.67			
	Culvert	1	7.00	1.50	0.15	1.58			
						337.76	**Cum**	**5421.90**	**1831294.17**
3	Providing and laying plain/reinforced **cement concrete for side drains using M20** nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271)								
	CC Drain Raft								
	1st Cross frm AGB Layout mn Rd to SWD (LHS)								
	LHS	1	316.00	0.90	0.15	42.66			
	RHS	1	328.00	0.90	0.15	44.28			
	1st Cross frm AGB Layout mn (RHS Up to Dead End)								
	LHS	1	258.00	0.90	0.15	34.83			
	RHS	1	271.00	0.90	0.15	36.59			
	Marison Layout								
	Chef Bakers Road(LHS)	2	101.00	0.90	0.15	27.27			
	Bharani Medical Store Road	2	206.00	0.90	0.15	55.62			
	Culvert								
	Culvert 2nd	1	6.70	0.90	0.15	9.05			
	CC Drain Wall								
	1st Cross frm AGB Layout mn Rd to SWD (LHS)								
	LHS	2	316.00	0.15	0.60	56.88			
	RHS	2	328.00	0.15	0.60	59.04			
	1st Cross frm AGB Layout mn (RHS Up to Dead End)								
	LHS	2	258.00	0.15	0.60	46.44			
	RHS	2	271.00	0.15	0.60	48.78			
	Marison Layout								
	Chef Bakers Road(LHS)	4	101.00	0.15	0.60	36.36			
	Bharani Medical Store Road	4	206.00	0.15	0.60	74.16			
	Culvert								
	Culvert 2nd	1	6.70	0.23	0.20	0.31			
						572.26	**Cum**	**7070.20**	**4045979.93**
4	KSRB 4.9.2 : Providing **T.M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specificatio(I No-28.8.2,P No-229)								
	Consider 65kg/Cum	1	572.26	75.00		**42919.37**			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
						42.92	Tn	72326.98	3104228.05
5	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	1st Cross frm AGB Layout mn Rd to SWD (LHS)								
	LHS	1	316.00	0.90		284.40			
	RHS	1	328.00	0.90		295.20			
	1st Cross frm AGB Layout mn (RHS Up to Dead End)								
	LHS	1	258.00	0.90		232.20			
	RHS	1	271.00	0.90		243.90			
	Marison Layout								
	Chef Bakers Road(LHS)	2	101.00	0.90		181.80			
	Bharani Medical Store Road	2	206.00	0.90		370.80			
						1608.30	Sqm	2208.00	3551126.40
6	Providing and **constructing granite / trap / basalt size stone masonry** in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications.(I No-34.8.2,P No-255)								
	For Culverts								
	Culvert 8th Crs	2	11.60	0.45	0.60	6.26			
	Culvert 7th Crs	2	7.50	0.45	0.60	4.05			
	Culvert 6th Crs	2	7.90	0.45	0.60	4.27			
	Culvert 5th Crs	2	7.85	0.45	0.60	4.24			
	Culvert 4th Crs	2	8.00	0.45	0.60	4.32			
	Culvert 3rd Crs	2	7.60	0.45	0.60	4.10			
	Culvert 1st	2	7.40	0.45	0.60	4.00			
						31.24	Cum	4871.76	152188.91
7	Providing **ruled pointing** to coursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, HOM curing complete as per specifications. (I No-34.13.1,P No-256)								
	For Culverts								
	Culvert 8th Crs	2	11.60		0.60	13.92			
	Culvert 7th Crs	2	7.50		0.60	9.00			
	Culvert 6th Crs	2	7.90		0.60	9.48			
	Culvert 5th Crs	2	7.85		0.60	9.42			
	Culvert 4th Crs	2	8.00		0.60	9.60			
	Culvert 3rd Crs	2	7.60		0.60	9.12			
	Culvert 1st	2	7.40		0.60	8.88			
						69.42	Sqm	148.40	10,301.93
8	Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	For Culverts								
	Culvert 8th Crs	1	11.60	1.50		17.40			
	Culvert 7th Crs	1	7.50	1.50		11.25			
	Culvert 6th Crs	1	7.90	1.50		11.85			
	Culvert 5th Crs	1	7.85	1.50		11.78			
	Culvert 4th Crs	1	8.00	1.50		12.00			
	Culvert 3rd Crs	1	7.60	1.50		11.40			
	Culvert 2nd	1	6.70	1.50		10.05			
	Culvert 1st	1	7.40	1.50		11.10			
						96.83	**Sqm**	**5241.00**	**507459.83**
9	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								
	1st Cross frm AGB Layout mn (RHS Up to Dead End)	1	215.00	10.00	0.25	537.50			
						537.50	**Cum**	**69.06**	**37,119.75**
10	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications (I No-19.64,P No-147)								
	1st Cross frm AGB Layout mn (RHS Up to Dead End)	1	215.00	10.00		2150.00			
						2150.00	**Sqm**	**6.36**	**13,674.00**
11	Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	1st Cross frm AGB Layout mn (RHS Up to Dead End)	1	215.00	10.00	0.150	322.50			
						322.50	**Cum**	**1994.92**	**643361.70**
12	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	1st Cross frm AGB Layout mn (RHS Up to Dead End)	1	215.00	10.00	0.225	483.75			
						483.75	**Cum**	**2001.28**	**968119.20**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
13	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	1st Cross frm AGB Layout mn (RHS Up to Dead End)	1	215.00	10.00		2150.00			
						2150.00	**Sqm**	**29.68**	**63,812.00**
14	KSRRB 500-7. Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
	1st Cross frm AGB Layout mn (RHS Up to Dead End)	1	215.00	10.00		2150.00			
						2150.00	**Sqm**	**12.72**	**27,348.00**
15	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	1st Cross frm AGB Layout mn (RHS Up to Dead End)	1	215.00	10.00	0.05	107.50			
						107.50	**Cum**	**6858.20**	**737256.50**
16	KSRRB M500-19. Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 507 of MORTH V revision using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 5.4% VG-30 Bitumen(P.No-162,I No-21.22.6)								
	1st Cross frm AGB Layout mn (RHS Up to Dead End)	1	215.00	10.00	0.04	86.00			
						86.00	**Cum**	**7911.84**	**680418.24**
17	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	1st Cross frm AGB Layout mn (RHS Up to Dead End)	3	215.00	0.10		64.50			
						64.50	**Sqm**	**454.74**	**29,330.73**
								Total Construction Cost	**16849671.50**
								KRIDL Charges 4.5%	**758235.22**
								Towards GST 12%	**2021960.58**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
								DPR & PMC Cost 2%	335000.00
								Sub Total	19985234.87
								Utility Shifting,Miscellaneous and Rounding off	14,765.13
								GRAND TOTAL	20000000.00

3,70,000=00
1,99,99,867=30
132=70

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019 and Data Rates

SILICON CONSULTING ENGINEERS

Assistant Engineer
Ward No-12
BBMP Bangalore

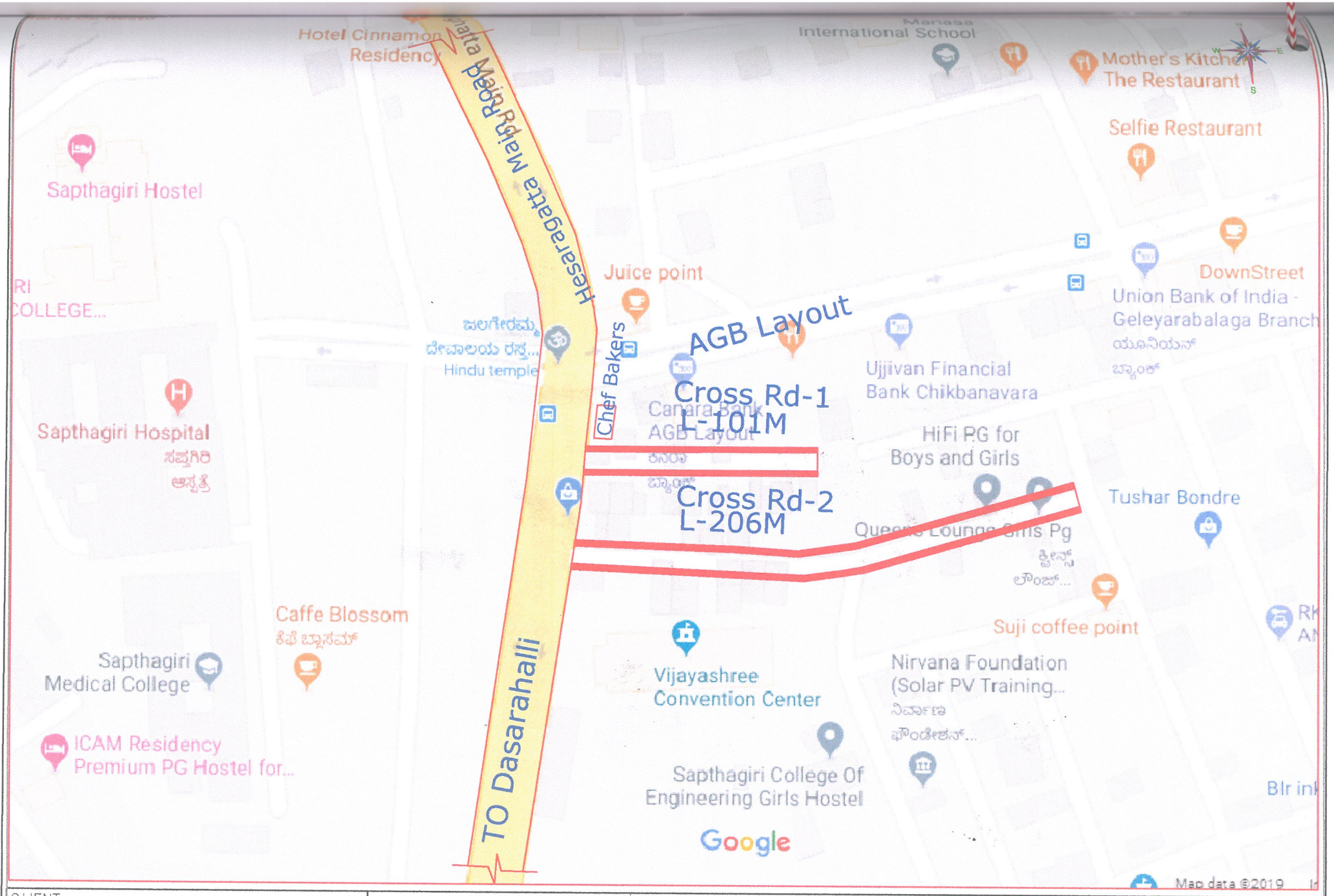
Asst. Executive Engineer,
Shettyhalli Sub Division
BBMP Bangalore

Executive Engineer,
Dasarahalli Division
BBMP Bangalore

ಸಂ. EE/AS/171/18-19 ದಿನಾಂಕ :20.02.2019
ರೂ. 20000000=00 (Two Hundred Lakhs Only)
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ.CE/D2/TS/193/18-19 ದಿನಾಂಕ : 22/02/2019
ರೂ. 200.00 Lakhs/- (Two Hundred Lakhs only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

CLIENT:	PROJECT	Dwg. Title:	
BRUHAT BANGALORE MAHANAGARA PALIKE	Improvements to roads and drains at Doddabetahalli layout in Ward No. 03	PLAN	MEDIAN CC Drain Culvert



CLIENT:	PROJECT	Dwg Title:	
BRUHAT BANGALORE MAHANAGARA PALIKE	Improvements to Asphalting to Saptagiri Collage Main and adjacent Cross roads in Waed Waed No 12 Shettyhalli Sub Division	PLAN	CC Drain